

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1. (Original) A method of encoding data in a code block comprising an information bit sequence in a communication device of a communication system comprising the steps of:

separating the information bit sequence of a first coding branch into a first plurality of subsets of information bits, each subset forming a code block segment; and

encoding the code block segments individually using at least one encoding as method.

2. (Original) The method according to claim 1, further comprising the step of encoding the information bit sequence in a second coding branch individually and separate from the encoding operations of the first plurality of code block segments.

3. (Original) The method according to claim 2, wherein the step of encoding the information bit sequence is performed in a second coding branch arranged in parallel to a first coding branch, wherein the separation and encoding operations on the first plurality of code block segments are performed independently of the encoding operations in the second coding branch.

4. (Currently Amended) The method according to ~~one of claim[s] 1 to 3~~, wherein the individual encoding steps of the code blocks and/or the code block segments are performed in a time diversity manner.

5. (Currently Amended) The method according to ~~one of claim[s] 1 to 4~~, further comprising the additional step of buffering at least a portion of either the code block or the code block segments prior to the encoding step.

6. (Currently Amended) The method according to ~~one of claims to one of claim[s] 1 to 5~~, wherein the individual encoding of the code block segments or code blocks is performed using different encoding methods.

7. (Currently Amended) The method according to ~~one of claim[s] 1 to 6~~, wherein the encoding steps use at least one of convolutional codes, trellis codes, turbo codes, Reed-Solomon codes, parity check codes.

8. (Currently Amended) The method according to ~~one of claim[s] 1 to 7~~, wherein the encoding step of the individually encoded code block segments or code blocks is performed in a plurality of parallel coding subbranches.

9. (Currently Amended) The method according to ~~one of claim[s] 1 to 8~~, wherein the information bits of the individually encoded code block segments are complementary to each other.

10. (Currently Amended) The method according to ~~one of claim[s] 1 to 9~~, wherein the segmentation of the code blocks is performed into code block segments of equal length.

11. (Currently Amended) The method according to ~~one of claim[s] 1 to 10~~, wherein the length of the code blocks and/or code block segments is varied by zero-stuffng or partial repetition of the information bit sequence.

12. (Currently Amended) The method according to ~~one of claim[s] 1 to 11~~, wherein the bits of the code blocks and code block segments are combined after encoding to form a code word corresponding to the original information bit sequence before encoding.

13. (Currently Amended) The method according to ~~one of claim[s] 1 to 12~~, further comprising the step of interleaving the information bits of one or more coding branches and/or subbranches.

14. (Original) The method according to claim 13, wherein the interleaving step uses different interleaving patterns for different coding branches or subbranches.

15. (Currently Amended) The method according to ~~one of claim[s] 13 to 14~~, wherein the step of interleaving the information bits is performed after separation and prior to the encoding step into code block segments.

16. (Currently Amended) The method according to ~~one of claim[s] 1 to 15~~, further comprising the step of adjusting the length of the code block prior to its separation into code block segments.

17. (Original) The method according to claim 16, wherein the adjustment is obtained by appending termination bits to the information bit sequence in at least one coding branch or subcoding branch.

18. (Currently Amended) The method according to ~~one of claim[s] 1 to 17~~, further comprising the step of including an error detection code inserted before the encoding step.

19. (Currently Amended) The method according to ~~one of claim[s] 1 to 18~~, wherein the separation is performed by periodically switching the input bit sequence to one of the subbranches.

20. (Currently Amended) The method according to ~~one of claim[s] 1 to 18~~, wherein the separation is performed using a transition vector or matrix which signifies which input bit shall be forwarded to which subbranches.

21. (Currently Amended) The method according to ~~one of claim[s] 1 to 18~~, wherein the separation is performed using a puncturing vector or matrix that determines which bits can pass through and which bits are removed for a particular subbranch.

22. (Currently Amended) An encoder for a communication device, adapted to carry out the method according to ~~one of claim[s] 1 to 21.~~

23. (Original) A communication device of a wireless communication system comprising an encoder according to claim 22.